PhD Student Position in Systems Engineering

A PhD student position is available in the Department of Chemical Engineering at Rowan University, Glassboro, New Jersey, USA. Research will be conducted within the Sustainable Design and Systems Medicine group with the guidance of Assistant Professor, Dr. Kirti M. Yenkie. The anticipated start date is fall 2019.

Project Description

The rise in world population and industrialization in developing nations has tremendously increased the demand for water and has resulted in generation of wastewater which is contaminated with organic pollutants and toxic contaminants. Thus, wastewater treatment, reuse, and safe disposal have become crucial for sustainable existence. Systematic guidelines which propose treatment based on inlet contamination and final desired conditions for water reuse and safe disposal will aid in designing efficient wastewater management systems. The project is in collaboration with the Pazmany Peter Catholic University in Budapest, Hungary and will involve the development of a framework for efficient treatment networks using simulation and optimization tools. The problem will be studied from multiple dimensions: environmental, technological, social, economic and political.

For more information about our work, please refer to: https://yenkiekm.com/

Stipend & Fees

The PhD student stipend will be $25,000 per annum for up to four years. Tuition fees will be paid. The student must cover health insurance (an estimated fee of $3,800 per annum).

Applications

To apply, submit a letter of interest, CV, and statement of purpose, and names and e-mail addresses of at least two academic referees to yenkie@rowan.edu before the deadline on 30 March, 2019. (This deadline is earlier as compared to the one on Rowan global website as international candidates will require additional time for visa paperwork and processing)

Other Requirements

Applications from students with a strong academic record in chemical engineering, chemical technology, or any other related disciplines are encouraged to apply. An interest in computer programming and simulations with prior exposure to programming languages and software packages such as C, C++, Matlab, etc. is preferable. More information in this regards to the PhD program can be found on Rowan Global Website: https://rowanu.com/programs/659

About Rowan University

Rowan University is a public research university located in the tranquil suburbs of southern New Jersey, close to Philadelphia. It was recently designated as a national research institute in 2017 and has received the R-2 Carnegie Classification (Higher Research Activity) in 2018. There are two medical schools associated with Rowan University – Rowan School of Osteopathic Medicine and Cooper Medical School – both located within a 20-minute drive.